

# SEQUENCE LISTING

<110> Donoho, Gregory  
Scoville, John  
Turner, C. Alexander Jr.  
Friedrich, Glenn  
Zambrowicz, Brian  
Sands, Arthur T.

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POLYNUCLEOTIDES ENCODING THE SAME

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 <211> 372  
 <212> PRT  
 <213> homo sapiens

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 Cys Pro Pro Asp Ala Glu Asp Phe Arg Ala Gln Gln Cys Ser Ala Tyr  
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 Asn Asp Val Gln Tyr Gln Gly His Tyr Tyr Glu Trp Leu Pro Arg Tyr  
 65 70 75 80  
 Asn Asp Pro Ala Ala Pro Cys Ala Leu Lys Cys His Ala Gln Gly Gln  
 85 90 95  
 Asn Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys  
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 Asn Thr Asp Ser Leu Asp Met Cys Ile Ser Gly Ile Cys Gln Ala Val  
 115 120 125  
 Gly Cys Asp Arg Gln Leu Gly Ser Asn Ala Lys Glu Asp Asn Cys Gly  
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 Val Cys Ala Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Ser  
 145 150 155 160  
 Lys Ser His Val Ser Pro Glu Lys Arg Glu Glu Asn Val Ile Ala Val  
 165 170 175  
 Pro Leu Gly Ser Arg Ser Val Arg Ile Thr Val Lys Gly Pro Ala His  
 180 185 190  
 Leu Phe Ile Glu Ser Lys Thr Leu Gln Gly Ser Lys Gly Glu His Ser  
 195 200 205  
 Phe Asn Ser Pro Gly Val Phe Val Val Glu Asn Thr Thr Val Glu Phe  
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 Gln Arg Gly Ser Glu Arg Gln Thr Phe Lys Ile Pro Gly Pro Leu Met  
 225 230 235 240  
 Ala Asp Phe Ile Phe Lys Thr Arg Tyr Thr Ala Ala Lys Asp Ser Val  
 245 250 255  
 Val Gln Phe Phe Phe Tyr Gln Pro Ile Ser His Gln Trp Arg Gln Thr  
 260 265 270  
 Asp Phe Phe Pro Cys Thr Val Thr Cys Gly Gly Tyr Gln Leu Asn  
 275 280 285  
 Ser Ala Glu Cys Val Asp Ile Arg Leu Lys Arg Val Val Pro Asp His  
 290 295 300  
 Tyr Cys His Tyr Tyr Pro Glu Asn Val Lys Pro Lys Leu Lys  
 305 310 315 320  
 Glu Cys Ser Met Asp Pro Cys Pro Ser Ser Asp Gly Phe Lys Glu Ile  
 325 330 335  
 Met Pro Tyr Asp His Phe Gln Pro Leu Pro Arg Ala Gly Asn Ile Ile  
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 Ala Leu Cys Val  
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 <211> 2175  
 <212> DNA  
 <213> homo sapiens

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 <212> PRT  
 <213> homo sapiens

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 Asp Thr Thr Gly Glu Gln Phe Leu Thr Tyr Arg Tyr Asp Asp Gln Thr  
 50 55 60

Ser Arg Asn Thr Arg Ser Asp Glu Asp Lys Asp Gly Asn Trp Asp Ala  
 65 70 75 80  
 Trp Gly Asp Trp Ser Asp Cys Ser Arg Thr Cys Gly Gly Gly Ala Ser  
 85 90 95  
 Tyr Ser Leu Arg Arg Cys Leu Thr Gly Arg Asn Cys Glu Gly Gln Asn  
 100 105 110  
 Ile Arg Tyr Lys Thr Cys Ser Asn His Asp Cys Pro Pro Asp Ala Glu  
 115 120 125  
 Asp Phe Arg Ala Gln Gln Cys Ser Ala Tyr Asn Asp Val Gln Tyr Gln  
 130 135 140  
 Gly His Tyr Tyr Glu Trp Leu Pro Arg Tyr Asn Asp Pro Ala Ala Pro  
 145 150 155 160  
 Cys Ala Leu Lys Cys His Ala Gln Gly Gln Asn Leu Val Val Glu Leu  
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 Ala Pro Lys Val Leu Asp Gly Thr Arg Cys Asn Thr Asp Ser Leu Asp  
 180 185 190  
 Met Cys Ile Ser Gly Ile Cys Gln Ala Val Gly Cys Asp Arg Gln Leu  
 195 200 205  
 Gly Ser Asn Ala Lys Glu Asp Asn Cys Gly Val Cys Ala Gly Asp Gly  
 210 215 220  
 Ser Thr Cys Arg Leu Val Arg Gly Gln Ser Lys Ser His Val Ser Pro  
 225 230 235 240  
 Glu Lys Arg Glu Glu Asn Val Ile Ala Val Pro Leu Gly Ser Arg Ser  
 245 250 255  
 Val Arg Ile Thr Val Lys Gly Pro Ala His Leu Phe Ile Glu Ser Lys  
 260 265 270  
 Thr Leu Gln Gly Ser Lys Gly Glu His Ser Phe Asn Ser Pro Gly Val  
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 Gln Thr Phe Lys Ile Pro Gly Pro Leu Met Ala Asp Phe Ile Phe Lys  
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 325 330 335  
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 Val Thr Cys Gly Gly Gly Tyr Gln Leu Asn Ser Ala Glu Cys Val Asp  
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 370 375 380  
 Glu Asn Val Lys Pro Lys Pro Lys Leu Lys Glu Cys Ser Met Asp Pro  
 385 390 395 400  
 Cys Pro Ser Ser Asp Gly Phe Lys Glu Ile Met Pro Tyr Asp His Phe  
 405 410 415  
 Gln Pro Leu Pro Arg Trp Glu His Asn Pro Trp Thr Ala Cys Ser Val  
 420 425 430  
 Ser Cys Gly Gly Gly Ile Gln Arg Arg Ser Phe Val Cys Val Glu Glu  
 435 440 445  
 Ser Met His Gly Glu Ile Leu Gln Val Glu Glu Trp Lys Cys Met Tyr  
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 Ala Pro Lys Pro Lys Val Met Gln Thr Cys Asn Leu Phe Asp Cys Pro  
 465 470 475 480  
 Lys Trp Ile Ala Met Glu Trp Ser Gln Cys Thr Val Thr Cys Gly Arg  
 485 490 495  
 Gly Leu Arg Tyr Arg Val Val Leu Cys Ile Asn His Arg Gly Glu His  
 500 505 510  
 Val Gly Gly Cys Asn Pro Gln Leu Lys Leu His Ile Lys Glu Glu Cys  
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 Val Ile Pro Ile Pro Cys Tyr Lys Pro Lys Glu Lys Ser Pro Val Glu  
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<211> 650  
 <212> PRT  
 <213> homo sapiens

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 Cys Pro Pro Asp Ala Glu Asp Phe Arg Ala Gln Gln Cys Ser Ala Tyr  
 50 55 60  
 Asn Asp Val Gln Tyr Gln Gly His Tyr Tyr Glu Trp Leu Pro Arg Tyr  
 65 70 75 80  
 Asn Asp Pro Ala Ala Pro Cys Ala Leu Lys Cys His Ala Gln Gly Gln  
 85 90 95  
 Asn Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys  
 100 105 110  
 Asn Thr Asp Ser Leu Asp Met Cys Ile Ser Gly Ile Cys Gln Ala Val  
 115 120 125  
 Gly Cys Asp Arg Gln Leu Gly Ser Asn Ala Lys Glu Asp Asn Cys Gly  
 130 135 140  
 Val Cys Ala Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Ser  
 145 150 155 160  
 Lys Ser His Val Ser Pro Glu Lys Arg Glu Glu Asn Val Ile Ala Val  
 165 170 175  
 Pro Leu Gly Ser Arg Ser Val Arg Ile Thr Val Lys Gly Pro Ala His  
 180 185 190  
 Leu Phe Ile Glu Ser Lys Thr Leu Gln Gly Ser Lys Gly Glu His Ser  
 195 200 205  
 Phe Asn Ser Pro Gly Val phe Val Val Glu Asn Thr Thr Val Glu Phe  
 210 215 220  
 Gln Arg Gly Ser Glu Arg Gln Thr Phe Lys Ile Pro Gly Pro Leu Met  
 225 230 235 240  
 Ala Asp Phe Ile Phe Lys Thr Arg Tyr Thr Ala Ala Lys Asp Ser Val  
 245 250 255  
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 260 265 270  
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 Tyr Cys His Tyr Tyr Pro Glu Asn Val Lys Pro Lys Pro Lys Leu Lys  
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 325 330 335  
 Met Pro Tyr Asp His Phe Gln Pro Leu Pro Arg Trp Glu His Asn Pro  
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 370 375 380  
 Glu Trp Lys Cys Met Tyr Ala Pro Lys Pro Lys Val Met Gln Thr Cys  
 385 390 395 400  
 Asn Leu Phe Asp Cys Pro Lys Trp Ile Ala Met Glu Trp Ser Gln Cys  
 405 410 415  
 Thr Val Thr Cys Gly Arg Gly Leu Arg Tyr Arg Val Val Leu Cys Ile  
 420 425 430  
 Asn His Arg Gly Glu His Val Gly Gly Cys Asn Pro Gln Leu Lys Leu  
 435 440 445  
 His Ile Lys Glu Glu Cys Val Ile Pro Ile Pro Cys Tyr Lys Pro Lys  
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 485 490 495  
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 595 600 605  
 Ser Leu Cys Asp Met Val His Arg Pro Pro Ala Met Ser Gln Ala Cys  
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<210> 11

<211> 2538

<212> DNA

<213> homo sapiens

<400> 11

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 <211> 845  
 <212> PRT  
 <213> homo sapiens

<400> 12

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Asp	Thr	Thr	Gly	Glu	Gln	Phe	Leu	Thr	Tyr	Arg	Tyr	Asp	Asp	Gln	Thr
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Ser	Arg	Asn	Thr	Arg	Ser	Asp	Glu	Asp	Lys	Asp	Gly	Asn	Trp	Asp	Ala
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Trp	Gly	Asp	Trp	Ser	Asp	Cys	Ser	Arg	Thr	Cys	Gly	Gly	Gly	Ala	Ser
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Ile	Arg	Tyr	Lys	Thr	Cys	Ser	Asn	His	Asp	Cys	Pro	Pro	Asp	Ala	Glu
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Gly	His	Tyr	Tyr	Glu	Trp	Leu	Pro	Arg	Tyr	Asn	Asp	Pro	Ala	Ala	Pro
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Gly	Ser	Asn	Ala	Lys	Glu	Asp	Asn	Cys	Gly	Val	Cys	Ala	Gly	Asp	Gly
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Ser	Thr	Cys	Arg	Leu	Val	Arg	Gly	Gln	Ser	Lys	Ser	His	Val	Ser	Pro
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Glu	Lys	Arg	Glu	Glu	Asn	Val	Ile	Ala	Val	Pro	Leu	Gly	Ser	Arg	Ser
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Val	Arg	Ile	Thr	Val	Lys	Gly	Pro	Ala	His	Leu	Phe	Ile	Glu	Ser	Lys
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Thr	Leu	Gln	Gly	Ser	Lys	Gly	Glu	His	Ser	Phe	Asn	Ser	Pro	Gly	Val
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Gln	Thr	Phe	Lys	Ile	Pro	Gly	Pro	Leu	Met	Ala	Asp	Phe	Ile	Phe	Lys
			305			310				315				320	
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			325					330						335	
Gln	Pro	Ile	Ser	His	Gln	Trp	Arg	Gln	Thr	Asp	Phe	Phe	Pro	Cys	Thr
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Val	Thr	Cys	Gly	Gly	Gly	Tyr	Gln	Leu	Asn	Ser	Ala	Glu	Cys	Val	Asp



<211> 2316  
 <212> DNA  
 <213> homo sapiens

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